Abraham G Beyene

List of Publications by Year
in descending order

14 papers	449 citations	1040056 9 h-index	1281871 11 g-index
15 all docs	15 docs citations	15 times ranked	511 citing authors

#	Article	IF	Citations
1	Imaging striatal dopamine release using a nongenetically encoded near infrared fluorescent catecholamine nanosensor. Science Advances, 2019, 5, eaaw3108.	10.3	120
2	Ultralarge Modulation of Fluorescence by Neuromodulators in Carbon Nanotubes Functionalized with Self-Assembled Oligonucleotide Rings. Nano Letters, 2018, 18, 6995-7003.	9.1	70
3	High-throughput evolution of near-infrared serotonin nanosensors. Science Advances, 2019, 5, eaay3771.	10.3	65
4	Dual Near‐Infrared Two‐Photon Microscopy for Deep‐Tissue Dopamine Nanosensor Imaging. Advanced Functional Materials, 2017, 27, 1702112.	14.9	56
5	Nanoparticle‐Templated Molecular Recognition Platforms for Detection of Biological Analytes. Current Protocols in Chemical Biology, 2016, 8, 197-223.	1.7	26
6	Stochastic Simulation of Dopamine Neuromodulation for Implementation of Fluorescent Neurochemical Probes in the Striatal Extracellular Space. ACS Chemical Neuroscience, 2017, 8, 2275-2289.	3.5	23
7	Review Article: Tools and trends for probing brain neurochemistry. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, 040802.	2.1	23
8	Binding Affinity and Conformational Preferences Influence Kinetic Stability of Short Oligonucleotides on Carbon Nanotubes. Advanced Materials Interfaces, 2020, 7, 2000353.	3.7	22
9	Near-infrared catecholamine nanosensors for high spatiotemporal dopamine imaging. Nature Protocols, 2021, 16, 3026-3048.	12.0	17
10	Visualizing synaptic dopamine efflux with a 2D composite nanofilm. ELife, 0, 11, .	6.0	15
11	New Optical Probes Bring Dopamine to Light. Biochemistry, 2018, 57, 6379-6381.	2.5	9
12	A community for Black chemists. Nature Chemistry, 2020, 12, 988-989.	13.6	1
13	(Invited) Imaging Dopamine Neuromodulation with Single Wall Carbon Nanotube Sensors. ECS Meeting Abstracts, 2018, , .	0.0	0
14	(Invited) Near-Infrared Optical Probes for Imaging Neuromodulators with High Spatiotemporal Resolution. ECS Meeting Abstracts, 2020, MA2020-01, 636-636.	0.0	0